

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 237

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 AUG 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. HOWEVER, REGION 4565 (S13W10) UNDERWENT SOME RESTRUCTURING AND SLIGHT GROWTH WHICH RESULTED IN A FLURRY OF SUBFLARES AND SMALL RADIO AND XRAY BURSTS. NONE OF THE XRAY BURSTS REACHED CLASS C LEVEL. MEANWHILE, ANOTHER REGION DEVELOPED, GREW FOR A WHILE AND THEN APPARENTLY STABILIZED. THIS REGION WAS NUMBERED 4566 (S14W60). REGION 4564 (S09W34) REMAINS SMALL AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL BUT FLARE INTENSITIES MAY INCREASE TO THE LEVEL OF AN ISOLATED CLASS C OR TWO.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. THIS ACTIVITY COULD BE ATTRIBUTED TO SEVERAL SOURCES WITH CORONAL HOLE AND SMALL FILAMENT DISAPPEARANCES BEING THE PRIME CANDIDATES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS FOR THE NEXT THREE DAYS. RECENT FRAGMENTATION AND DISAPPEARANCE OF SMALL FILAMENT SEGMENTS IS THOUGHT TO BE THE SOURCE OF THIS ACTIVITY.

III. EVENT PROBABILITIES 25 AUG-27 AUG

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 AUG 080

PREDICTED 25 AUG-27 AUG 081/082/084

90 DAY MEAN 24 AUG 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 AUG 008/012

ESTIMATED AFR/AP 24 AUG 018/029

PREDICTED AFR/AP 25 AUG-27 AUG 014/020-012/015-012/015

SOLTERWARN

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